

CLAIMS:

What is claimed is:

- 1 1. In a data processing network having a server, multiple
2 partitions, a fabric, and a channel adapter communicating between
3 the partition and the fabric, a method of assigning addresses to
4 the channel adapter comprising:
5 sending multiple requests from the channel adapter to the
6 fabric, each request sent on behalf of a respective one of said
7 partitions;
8 assigning a unique address identification for each request,
9 each address identification being associated with the respective
10 partition on whose behalf the request was sent;
11 storing in a table in the fabric, the address
12 identifications; and
13 returning the assigned address identification for each
14 request, wherein multiple addresses are assigned to the same
15 channel adapter.
- 1 2. The method of claim 1 further comprising establishing the
2 table in the fabric responsive to the first request.
- 1 3. The method of claim 1 wherein the table is stored in a name
2 server in the fabric.
- 1 4. The method of claim 1 further comprising:
2 sending a proposed address to the fabric with a request, and
3 confirming by the fabric that the proposed name is assigned.

1 5. The method of claim 1 further comprising:
2 sending an updated address to the fabric with a request, and
3 updating by the fabric, the stored address associated with
4 the partition on whose behalf the request was sent with said
5 updated address.

1 6. A data processing system comprising:
2 a server;
3 multiple partitions in said server;
4 a fabric;
5 a channel adapter communicating between the partition and
6 the fabric, said channel adapter sending multiple requests to the
7 fabric, each request sent on behalf of a respective one of said
8 partitions;
9 said fabric assigning a unique address identification for
10 each request, each address identification being associated with
11 the respective partition on whose behalf the request was sent;
12 a table in said fabric storing the address identifications;
13 and
14 a transmitter in said fabric returning the assigned address
15 identification for each request, such that multiple addresses are
16 assigned to the same channel adapter.

1 7. The data processing system of claim 6 wherein said fabric
2 establishes the table in the fabric responsive to the first
3 request.

1 8. The data processing system of claim 6 wherein the table is
2 stored in a name server in the fabric.

1 9. The data processing system of claim 6 wherein said server
2 sends a proposed address to the fabric with a request, and said
3 fabric confirms that the proposed name is assigned.

1 10. The data processing system of claim 6 wherein said server
2 sends an updated address to the fabric with a request, and said
3 fabric updates the address associated with the partition on whose
4 behalf the request was sent with said updated address.

1 11. In data processing system having a server, multiple
2 partitions in the server, a fabric, and a channel adapter
3 communicating between the partition and the fabric, said channel
4 adapter sending multiple requests to the fabric, each request
5 sent on behalf of a respective one of said partitions, an
6 apparatus for assigning multiple addresses to the channel adapter
7 comprising:

8 a process in said fabric assigning a unique address
9 identification for each request, each address identification
10 being associated with the respective partition on whose behalf
11 the request was sent;

12 a table in said fabric storing the address identifications;
13 and

14 a transmitter in said fabric returning the assigned address
15 identification for each request, such that multiple addresses are
16 assigned to the same channel adapter.

1 12. The apparatus of claim 11 wherein said fabric establishes
2 the table in the fabric responsive to the first request.

1 13. The apparatus of claim 11 wherein the table is stored in a
2 name server in the fabric.

1 14. The apparatus of claim 11 wherein when said server sends a
2 proposed address to the fabric with a request, and said fabric
3 confirms that the proposed name is assigned.

1 15. The apparatus of claim 11 wherein when said server sends an
2 updated address to the fabric with a request, and said fabric
3 updates the address associated with the partition on whose behalf
4 the request was sent with said updated address.

1 16. A program product usable with a data processing network
2 having a server, multiple partitions, a fabric, and a channel
3 adapter communicating between the partition and the fabric, said
4 program product comprising:

5 a computer readable medium having recorded thereon computer
6 readable program code means for performing the method of
7 assigning addresses to the channel adapter comprising:

8 receiving multiple requests from the channel adapter to the
9 fabric, each request sent on behalf of a respective one of said
10 partitions;

11 assigning a unique address identification for each request,
12 each address identification being associated with the respective
13 partition on whose behalf the request was sent;

14 storing in a table in the fabric, the address
15 identifications; and

16 returning the assigned address identification for each
17 request, wherein multiple addresses are assigned to the same
18 channel adapter.

1 17. The program product of claim 16 wherein said method further
2 comprises establishing the table in the fabric responsive to the
3 first request.

1 18. The program product of claim 16 wherein the table is stored
2 in a name server in the fabric.

1 19. The program product of claim 16 wherein said method further
2 comprises:
3 receiving a proposed address to the fabric with a request,
4 and
5 confirming by the fabric that the proposed name is assigned.

1 20. The program product of claim 16 wherein said method further
2 comprises:
3 receiving an updated address to the fabric with a request,
4 and
5 updating by the fabric, the stored address associated with
6 the partition on whose behalf the request was sent with said
7 updated address.